

METHOD, SYSTEM AND COMPUTER SOFTWARE FOR VARIANT INFORMATION VIA A WEB PORTAL

Abstract of Disclosure

A genomic web portal is described that receives from a user over the Internet a selection of identifiers of probes for detecting biological molecules. The portal may also receive hybridization intensity values produced from biological probe array experiments. The portal determines alternative splice variants based on factors that may include the hybridization intensity values. The portal correlates alternative splice variants with annotation data and provides for the user a graphical representation of the alternative splice variants and the correlated annotation data. The selection of annotation data to be displayed may be based on a user selection of a genomic, primary-transcript, mRNA, or protein display type. The annotation data may include genomic sequence; presence or relative abundance of alternative splice variants; exon arrangement, content, or sequence; frequency of exon usage in alternative splice variants; RNA, gene, or protein identification, function, structure, or sequence; probe arrangement; and other data.